

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE J		PAGE OF PAGES 1 14	
2. AMENDMENT/MODIFICATION NO. 0002		3. EFFECTIVE DATE 13-Feb-2003		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO.(If applicable)	
6. ISSUED BY CONTRACTING DIVISION USAGE - ST PAUL 190 5TH STREET E ST PAUL MN 55101-1638		CODE DACW37		7. ADMINISTERED BY (If other than item 6) See Item 6		CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code)				<input checked="" type="checkbox"/> X		9A. AMENDMENT OF SOLICITATION NO. DACW37-03-B-0005	
				<input checked="" type="checkbox"/> X		9B. DATED (SEE ITEM 11) 27-Jan-2003	
						10A. MOD. OF CONTRACT/ORDER NO.	
						10B. DATED (SEE ITEM 13)	
CODE		FACILITY CODE					
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS							
<input checked="" type="checkbox"/> X The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offer <input type="checkbox"/> is extended, <input checked="" type="checkbox"/> X is not extended. Offer must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.							
12. ACCOUNTING AND APPROPRIATION DATA (If required)							
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.							
A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.							
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(B).							
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:							
D. OTHER (Specify type of modification and authority)							
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) This amendment contains updated specifications and drawings for the solicitation. The bid opening date has not changed and remains scheduled for February 26, 2003 at 1400 hours.							
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. NAME AND TITLE OF SIGNER (Type or print)				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)			
				TEL: _____ EMAIL: _____			
15B. CONTRACTOR/OFFEROR _____ (Signature of person authorized to sign)		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA BY _____ (Signature of Contracting Officer)		16C. DATE SIGNED	

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

1. The bid opening date has not changed and remains scheduled for February 26, 2003 at 1400 hours.

2. Changes to Specifications:

A. All references to NSP should be changed to Xcel Energy.

B. In Section 00830 make the following changes:

- 1) **See and Add Attachment E – ENCROACHMENT REQUEST AND POWERLINE CLEARANCES**, which is attached to and is part of this amendment.
- 2) **See and Add Attachment F – City of Grand Forks Specification Section 02660: WATER DISTRIBUTION SYSTEM**, which is attached to and is part of this amendment.
- 3) **See and Add Attachment G – City of Grand Forks Specification Section 02675: DISINFECTION OF WATER MAINS**, which is attached to and is part of this amendment.

C. In Section 01000, GENERAL, make the following changes:

- 1) Add the following paragraph after Paragraph 3.5.3.1 Highway 2 ROW Permit:

“3.5.3.2 Xcel Energy Encroachment Request and Power Line Clearance Permit

The City of Grand Forks has obtained an Encroachment Request and Power Line Clearance Permit from Xcel Energy for work in the vicinity of power lines. The contractor shall comply with all requirements and conditions of the permit. A copy of the permit is in Section 00830, Appendix E.”

D. In Section 01270, MEASUREMENT AND PAYMENT, replace paragraph 1.2.11 Pump Station #84 Force Main Extension with the following:

“1.2.11 Pump Station #84 Force Main Extension

Payment will be made for costs associated with furnishing materials, equipment and labor and performing all operations necessary for the construction of the existing pump station #84 storm sewer force main extension. Work includes, but is not limited to reinforced concrete force main, reinforced plastic mortar pressure pipe (RPMP), precast manholes, air relief/vacuum valve, discharge chamber, outfall structure and associated rip rap. Also included in the work is the realignment of the existing 55th Street Lift Station outlet structures and re-alignment of the existing 14-inch waterline. The work shall include required excavation, temporary shoring, dewatering, connections to new and existing structures and backfilling of excavations, and any required testing of the in-place facility. All incidentals shall be included.”

E. Add to the Specifications, Section 02510, WATER DISTRIBUTION SYSTEM, attached below:.

SECTION 02510

WATER DISTRIBUTION SYSTEM

PART 1 GENERAL

1.1 GENERAL REQUIREMENTS

This section covers work specific to the 14-inch water main realignment, including pressure testing and disinfection. Work specific to the waterline realignment shall be governed by City of Grand Forks

Specifications Sections 02660: Water Distribution System and Section 02675: Disinfection of Water Mains. These specification sections are included in Section 0830 as Attachments F and G. The specification sections reference the City of Grand Forks Standard Construction Specifications. A copy of the Standard Construction Specifications can be obtained by contacting the City of Grand Forks Engineering Department.

Payment for work specific to the waterline realignment shall be incidental to the Pump Station #84 Forcemain Extension.

The term, "Engineer" in the Grand Forks Specifications shall represent the Contracting Officer or Contracting Officer's Representative.

PART 2 PRODUCTS

See GENERAL REQUIREMENTS, Paragraph 1.1.

PART 3 EXECUTION

See GENERAL REQUIREMENTS, Paragraph 1.1.

End of Section

3. Changes to Drawings:

Summary: Drawing numbers R-P-GF 64/641, R-P-GF 64/643, and R-P-GF 64/644 are re-issued to show the 14-inch waterman realignment at station A26+55 and details. Drawing number R-P-GF 64/673 eliminates the 36-inch access hole and cover in Manhole #2.

- A. Remove drawing R-P-GF 64/641 and replace with re-issued drawing R-P-GF 64/641 which is a separate attachment and part of this amendment.
- B. Remove drawing R-P-GF 64/643 and replace with re-issued drawing R-P-GF 64/643 which is a separate attachment and part of this amendment.
- C. Remove drawing R-P-GF 64/644 and replace with re-issued drawing R-P-GF 64/644 which is a separate attachment and part of this amendment.
- D. Remove drawing R-P-GF 64/673 and replace with re-issued drawing R-P-GF 64/673 which is a separate attachment and part of this amendment.
- E. On drawing R-P-GF 64/645, STORM SEWER SCHEDULE, change the casting called out for manhole No. 2 from R-1733-C to R-1739-A.
- F. Change all references to NSP on the drawings to read Xcel Energy.

SECTION 00830

ATTACHMENT E

XCEL ENERGY ENCROACHMENT REQUEST & POWER LINE CLEARANCES PERMIT

File No. _____

ENCROACHMENT REQUEST & POWERLINE CLEARANCES

Line No. 230KV 0916 Structure No. _____ Plan & Profile No. _____
 1/4 _____ 1/4, Section _____ Township _____ Range _____ County _____
 Easement Affected: Doc. No.: _____

The attached material pertains to a request to construct a PUMPING STATION within the right of way for the subject line. Please review the plans and highlight the following conditions, which pertain to this project. If you have additional comments, please respond in the space provided. Thank you, in advance for your cooperation.

1. EXCAVATION CLOSE TO STRUCTURE LOCATION

A minimum distance of 15 feet of supported earth must be maintained from any part of the transmission line structure. Support of the ground beyond the 15 feet may be provided by a slope no greater than three (3) feet horizontal to one (1) foot vertical. Support may also be provided by the use of cribbing, sheet piling, retaining wall, or tunneling. The specific plan for providing the required support and the excavation plan for the proposed project must be submitted to Xcel Energy for review and approval.

2. GRADE CHANGE AROUND STRUCTURE LOCATION

~~Fill around or above steel structure foundations is not permitted. The grade around the structures must provide for surface water runoff, no surface water ponding around structures will be permitted. Any cost related to the adjust of Xcel Energy's facilities will be at the requester's expense.~~

3. FILL AND GRADE CHANGE AROUND GUY WIRES AND ANCHORS

Fill above the steel anchor rod onto the guy wire is not permitted. The specific plan for any grade change or excavation in the vicinity of down guys and anchors must be submitted to Xcel Energy for review and approval.

4. GRADE CHANGE WITHIN EASEMENT

~~The ground elevation within the easement shall not be increased above _____ feet mean sea level, 1929 adjustment or above the existing or proposed grade. Stockpiling of soil and/or material within the easement will not be permitted, TEMPORARILY OR PERMANENTLY.~~

5. Clearances to Equipment

A working clearance of 30 feet between the electrical conductors and any cranes or digging equipment used in or near the easement, must be maintained at all times. If this clearance cannot be maintained, the contractor or developer must arrange for a line outage by calling Xcel Energy's System Control department (Steve Rollin @ 612.330.2875). At least two (2) weeks advance notice must be provided in order to schedule a line outage. There is a fee of approximately \$350.00 per day, per outage, for this service. This fee must be paid prior to outage.

6. **LANDSCAPING WITHIN THE EASEMENT**

~~Detailed plans for landscaping (including light standards) must be submitted to Xcel Energy for review and approval.~~ Generally, shorter varieties of trees and shrubs may be considered. If planting is permitted, the line's voltage and the tree's mature height and the distance from the line must be considered. For maintenance purposes, there shall be no planting within 15 feet of structure sites.

7. **BUILDING ON EASEMENTS**

There shall be no permanent or temporary building allowed on the easement.

8. **FUEL AND REFUELING ON EASEMENTS**

There shall be no fuel tanks stored or refueling of vehicles and equipment within the easement.

~~9. **STREET LIGHTS AND SIGNS ON EASEMENTS**~~

~~If there are to be street lights, sign boards, identification signs, or any other type of non-building structure within the easement, detailed plans must be submitted to Xcel Energy for review and approval to verify compliance with electrical code clearances. The proposed _____ cannot exceed an elevation of _____ feet mean sea level. Metallic structures must be properly grounded. The same working clearance criteria, as stated in Paragraph _____, also applies, for equipment used to erect and install light standards, sign boards, etc.~~

10. **FENCES ON EASEMENTS**

If the easement area is fenced, gates must be installed to provide access to Xcel Energy for maintenance purposes. Chain link or other types of fences using metal material and constructed on or near an Xcel Energy easement should be properly grounded.

11. **STRUCTURE PROTECTION**

Where streets, parking lots, or other areas are developed which expose transmission structures to vehicular traffic, steel post, or guardrail type barricades must be installed in accordance with Xcel Energy specifications. In some cases curbing will provide adequate protection.

~~12. **NOTIFICATION**~~

~~The contractor must notify Xcel Energy at least _____ days prior to beginning construction. Please contact _____ at _____~~

13. **COMMENTS**

SECTION 00830**ATTACHMENT F****CITY OF GRAND FORKS
SPECIFICATION SECTION 02660: WATER DISTRIBUTION SYSTEM****PART 1 GENERAL****1.1 WORK INCLUDED**

- A. Pipe, fittings and coupling for water main.
- B. Water main pressure testing
- C. Controlled Density Fill

1.2 RELATED SECTIONS

- A. Related Sections include, but are not limited to:
 - 1. Section 01000 – General
 - 2. Section 01270 – Measurement and Payment
 - 3. Section 01312 – Quality Control System (QCS)
 - 4. Section 01330 – Submittal Procedures
 - 5. Section 01451 – Contractor Quality Control
 - 6. Section 01568 – North Dakota Pollutant Discharge Elimination System
 - 7. Section 02316 – Excavation, Trenching, and Backfilling for Utility Systems
 - 8. Section 02675 – Disinfection of Water Mains
 - 9. Section 02920 – Seeding and Topsoil

1.3 REFERENCES

- A. City of Grand Forks “Standard Construction Specifications,” latest edition.
- B. AWWA C906 – Polyethylene (PE) Pressure Pipe and Fittings, 4 inch through 63 inch, for Water Distribution.
- C. ASTM D3035 – Standard Specification for Polyethylene (PE) Plastic Pipe (DR-PR) based on Controlled Outside Diameter.
- D. ASTM D3261 – Standard Specifications for Butt Heat Fusion Polyethylene (PE) Plastic Fittings for Polyethylene (PE) Plastic Pipe and Tubing.
- E. ASTM D3350 – Standard Specifications for Polyethylene Pipe and Fitting materials.
- F. NSF Standard No. 14, 60, and 61 – National Sanitation Foundation

1.4 SUBMITTALS

- A. Product Data: Provide data on material in accordance with Section 01330 for all piping, fittings and couplings.
- B. Manufacturer’s Instructions: For Electromagnetic Couplings, furnish manufacturer’s printed instruction for handling and installation.

PART 2 PRODUCTS

2.1 MATERIALS

- A. High Density Polyethylene (HDPE) Water Main Pipe and Fittings:
 - 1. Material shall be PE 3408, extruded from ASTM D1248, Type III, Grade 3, Class C, polyethylene compound with a cell classification of ASTM D3350-PE345434C.
 - 2. Controlling Pipe Diameter shall be ductile iron pipe size (DIPS), ASTM D3035, AWWA C906.
 - 3. Minimum working pressure shall be 150 psi.
 - 4. Pipe and fittings shall bear the National Sanitation Foundation (NSF) seal of approval for potable water.
 - 5. Approved Manufacturer:
 - a. CPChem Performance Pipe
 - b. Approved equal
- B. Electrofusion Full Coupling:
 - 1. Coupling shall be of the same material, size and pressure class as the pipe on which it is installed. Installation shall be in strict accordance with manufacturer's instructions.
 - 2. Approved Manufacturer:
 - a. Central Plastic
 - b. Approved equal
- C. Corporation Stops:
 - 1. Brass construction with inlet and outlet opening the same size as the valve.
 - 2. AWWA ball valve type.
 - 3. Insta-tite or compression connections.
 - 4. Meet or exceed the ANSI/AWWA C800 Standards, 150 psi.
 - 5. Approved manufacturers:
 - a. A.Y. McDonald Manufacturing Co
 - b. Mueller Company
 - c. Ford Meter Box Company
 - d. Approved Equal
- D. Service and Tapping Saddles:
 - 1. Per Division III, Article 36.05 of the Grand Forks Standard Construction Specifications.
 - 2. Meet or exceed ANSI/AWWA C800 Standards, 200 psi.
 - 3. All stainless steel construction, double bolt type with minimum band width of 6 inches, rubber "O" ring gasket pad meeting ASTM D2000.
 - 4. Approved Manufacturers:
 - a. Romac Industries, Inc.
 - b. Dresser Industries
 - c. Ford Meter Box Company
 - d. Approved Equal
- E. Reaction Backing (Thrust Blocks):
 - 1. Per Division II, Article 24.02 C4 of the Grand Forks Standard Construction Specifications
 - 2. 3,000 psi concrete unless otherwise noted.
- F. Excavation, Bedding and Backfill:
 - 1. As shown on the plans and as specified in Section 02316, Excavation, Trenching and Backfilling for Utility Systems.

- G. Controlled Density Fill:
1. Materials:
 - a. Portland Cement – North Dakota Type I, ASTM C150 Low Alkali
 - b. Fly Ash – Type “C”, ASTM C618
 - c. Fine Aggregate – 3/8” down sand, ASTM C33
 - d. Admixtures – None
 2. Design Mix:

a. Type I Portland Cement	25#
b. Type “C” Fly Ash	200#
c. Fine Aggregate	4,000#
d. Coarse Aggregate	None
e. Water	None
f. Cement Factor, Nominal	0.25 sack
g. Air Content, Calculated	1 ½%
h. Compressive Strength	Not considered
 3. Batch weights shown above are on a dry basis and should be adjusted for varying moisture conditions in the aggregates at the time of batching.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Per Division II, Articles 21.02 and 21.05 of the Grand Forks Standard Construction Specification, all work shall be completed in a manner and schedule that will minimize disruptions of water distribution services and traffic. Notify Engineer and Owner at least 7 days prior to any work on existing water mains. Coordinate all flushing, pressure testing, and sterilizing activities with the Engineer and Owner.
- B. Verify existing conditions. Verify invert elevation of proposed storm sewer and existing water main. Maintain separation distance as shown on the plans.

3.2 INSTALLATION

- A. Join and install pipe and appurtenances in strict accordance with manufacturer’s recommendations and in accordance with Grand Forks Standard Construction Specifications, Division II, Articles 24.01 and 24.02, AWWA 600, AWWA C605, as applicable. Pipe and elbow fittings shall be assembled utilizing butt fusion.
- B. Remove all foreign material or dirt from the inside of the pipe prior to installation. Keep clean by approved means during and after installation.

3.3 PRESSURE TESTING OF NEW PIPE

- A. After the construction of the new pipeline is complete and prior to backfilling of the line, Contractor shall subject the new pipeline to 100 psi pressure for a minimum period of one hour. Contractor shall carefully visually examine all newly installed pipe and fittings during the test period. Any visible leaks or deficiencies shall be repaired. The one-hour test period shall be repeated for the newly repaired section.

3.4 BACKFILL

- A. Any excavation below the invert of the proposed storm sewer pipe shall be backfilled with controlled density fill as shown on the plan. The remaining backfill shall be as specified in Section 02316.

3.5 DISINFECTION OF WATER SYSTEM

- A. After the newly installed pipe and fittings have been pressure tested, the line shall be flushed and disinfected in accordance with Section 02675.

3.6 DATA FOR AS-BUILD RECORDS

- A. Contractor shall provide records of measured depths and measured horizontal and vertical ties of water main and appurtenances. Ties shall be referenced to permanent surface features.

End of Section

SECTION 00830

ATTACHMENT G

CITY OF GRAND FORKS SPECIFICATION SECTION 02675: DISINFECTION OF WATER MAINS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Disinfection of potable water distribution & transmission mains and appurtenances.
- B. Testing procedures and reporting of results.

1.2 REFERENCES

- A. AWWA B300 - Standard for Hypochlorites.
- B. AWWA B301 – Standard for Liquid Chlorine
- C. AWWA C651 - Standards for Disinfecting Water Mains
- D. Federal Specification BB-C-12a, O-C-114a, and O-C-602b

1.3 REFERENCED STANDARD

- A. City of Grand Forks “Standard Construction Specifications”, latest edition

1.4 REQUIRED REPORTS

- A. Disinfection Report:
 - 1. Type and form of disinfectant used.
 - 2. Dates and times of disinfectant injection start and completion.
 - 3. Test locations.
 - 4. Initial and final hour disinfectant residuals in ppm for each outlet tested.
 - 5. Date and time of flushing start and completion.
 - 6. Disinfectant residual after flushing (in ppm) for each outlet tested.
- B. Bacteriological Report:
 - 1. Date issued, project name, and testing laboratory name, address, and telephone number.
 - 2. Time and date of water sample collection.
 - 3. Name of person collecting samples.
 - 4. Test locations.
 - 5. Initial and final hour disinfectant residuals in ppm for each outlet tested.
 - 6. Coliform bacteria test results for each outlet tested.
 - 7. Bacteriologist's signature and authority.

1.5 QUALITY ASSURANCE

- A. Perform Work in accordance with ANSI/AWWA C651.
- B. Comply with requirements of the North Dakota Department of Health.
- C. Testing of Sample: the City of Grand Forks Water Treatment Plant (GFWTP) shall test Samples as outlined in PART 3 EXECUTION. Contractor shall obtain sterile sampling bottles from the GFWTP and shall collect the samples per project requirement and sampling protocol.

PART 2 PRODUCTS

2.1 MATERIALS

- A. AWWA B301, Liquid Chlorine: Shall conform to Federal Specification BB-C-120a.
- B. AWWA B300, Hypochlorite: Shall conform to Federal Specification O-C-114a, Type II, Grade B, or Federal Specification O-C-602b.

PART 3 EXECUTION

3.1 PREPARATION

- A. The section of existing water main that is valved off to allow the new main construction shall remain out of service until the new main is pressure tested and the entire out of service main and new main is flushed which shall be followed by disinfection. Chlorination application shall then be made under the supervision of the Engineer.
- B. The Contractor shall furnish all tools, equipment and material to flush and sterilize the system.

3.2 DISINFECTION OF WATER SYSTEM AND APPURTANANCES

- A. Use of hypochlorite tablets for disinfection shall not be allowed.
- B. Liquid chlorine shall be injected into a corporation installed on one end of the main taken out of service. Location of the corporation shall generally be placed at a location such that liquid chlorine can be injected into a water supply stream and the chlorine mixture is carried through the entire length of the water main isolated which includes the new section of main. Location of corporation must meet approval of the Engineer. Cost of corporation and disinfecting work shall be incidental to the unit price of the water main construction. Depending upon the arrangement of the new water main, additional corporations at various locations may be required to insure complete disinfection of the new water main.
- C. The chlorine solution shall be fed into the new line in amounts to produce at least 50 ppm retained for 24 hours or 200 ppm retained for 3 hours. When repairing existing lines, the chlorine residual shall be at least 200 ppm and retained for three hours. Valves shall be sterilized by opening and closing them at least once during the holding period.
- D. After the contact time has elapsed, the system shall be flushed with clean water until the chlorine residual is lowered to approximately 1.0 ppm. Dispose of highly chlorinated water in an environmentally acceptable manner. No chlorinated water shall be discharged into the water main trench
- E. Upon completion of flushing and disinfecting of water main but prior to placing water main into service, Contractor shall acquire a water sample for bacteriological testing purposes. All samples

shall be obtained from locations determined by Engineer and shall be obtained in the presence of Engineer. Sample shall promptly be delivered to the Grand Forks Water Treatment Plant (GFWTP) where Owner shall test sample for bacteriologic content. If test indicates the presence of bacteria, Contractor shall re-flush main and acquire a new test sample. At Contractor's option, main may be re-disinfected prior to re-flushing and re-sampling. If re-test fails, Contractor shall repeat flushing, disinfecting, sampling and testing process until favorable test results are obtained. Only after bacteriological test results are favorable shall Contractor place water main into service. Contractor shall verify that the duration of the test is 24 to 26 hours from the time sample is delivered. Samples for testing purposes will be accepted at the GFWTP from 8:00 a.m. to 4:30 p.m. Monday through Thursday. In special cases, samples will be accepted on Friday, however, there will be an associated overtime charge to complete the test on the weekend. In addition, samples will not be accepted on the day prior to a holiday. All costs of bacteriological testing (except overtime charges as described above) will be at Owner's expense. All cost of flushing, disinfecting and sampling shall be borne by Contractor.

3.3 FIELD QUALITY CONTROL

- A. Two or more successive test samples indicating bacteriological satisfactory water shall be required before water main are placed into service.
- B. Follow sanitary construction practices during installation of the final connection to insure that there is no contamination of the new or existing water main.

END OF SECTION